

AMENDMENTS TO THE CLAIMS

Claim 1. (Currently Amended) A system for accessing Internet services on a data network telephony system comprising:

a data network to provide data connectivity for a plurality of data communications channels using data transport protocols;

at least one Internet service connected to the data network;

a data network telephone connected to the data network, the data network telephone operable to communicate a voice signal as voice-over-data packets on a voice-over-data channel, the voice over data channel being one of the plurality of data communications channels on the data network, the data network telephone operable to convert voice-over-data packets communicated on the voice-over-data channel to voice signals; and


a portable information device comprising a first graphical user interface and a first data network telephone interface, the first graphical user interface operable to accept and display information from the Internet service, the first data network telephone interface operable to communicate at least one request for Internet services to and from the first data network telephone,

the data network telephone being operable to receive the at least one request for Internet services from the portable information device and to communicate information from the at least one Internet service to the portable information device while concurrently communicating the voice signal on the voice-over-data channel.

Claim 2. (New) The system of Claim 1, wherein the first data network telephone interface of the portable information device is a wireless connection to the data network telephone.

Claim 3. (New) The system of Claim 2, wherein the wireless connection is selected from the group consisting of infrared communications, radio frequency communications, and wireless Bluetooth communications.

Claim 4. (New) The system of Claim 1, wherein the at least one request for Internet services includes a hotlink to a Web service.

 Claim 5. (New) The system of Claim 1, wherein the portable information device further comprises a SYNC button to initiate the at least one request for Internet services.

Claim 6. (New) The system of Claim 1, wherein the data transport protocols are selected from the group consisting of point-to-point protocols, Real Time Protocols (RTP), User Datagram Protocols (UDP), and Session Initiation Protocols (SIP).

Claim 7. (New) A method of accessing an Internet service using a portable information device coupled to a data network telephone, while concurrently communicating voice signals on the data network telephone, the method comprising:

receiving a request for information from an Internet service from the portable information device at the data network telephone;

placing the request for information into PID data packets for transmission to the Internet service across a PID data channel, the PID data channel being one of a plurality of data communications channels from which the data network telephone communicates with a data network;

sending the PID data packets across the PID data channel;

receiving data packets from the Internet service across at least one of the plurality of data communications channels at the data network telephone;

determining a type of data contained in the received data packets; and

if PID data packets are present in the received data packets, transmitting the PID data packets from the data network telephone to the portable information device,

wherein the data network telephone communicates received PID data packets to the portable information device while communicating the voice signals on the data network telephone on a voice-over-data channel, the voice-over-data channel being one of the plurality of data communications channels on the data network telephone.

Claim 8. (New) The method of Claim 7, wherein receiving the request for information from the portable information device at the data network telephone comprises receiving the request via a wireless connection.

Claim 9. (New) The method of Claim 7, further comprising, if voice signals are present in the received data packets, playing out the voice signals on the data network telephone.

Claim 10. (New) The method of Claim 7, further comprising displaying the requested information on a PID display on the portable information device.

Claim 11. (New) A portable information device comprising:

a voice communication device interface operable to provide a link between the portable information device and a voice communication device, wherein the portable information device sends data to and receives data from the voice communication device across the voice communication device interface; and

a portable information device data application operable to request and receive data from a data network through the voice communication device interface while the voice communication device is communicating voice signals over the data network.

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Claim 12. (New) The portable information device of Claim 11, wherein the voice communication device interface is selected from the group consisting of a wireless interface and a hardwired interface.

Claim 13. (New) The portable information device of Claim 11, wherein the voice communication device interface is selected from the group consisting of an RS-232 serial connection, a PDA docking cradle, an infrared interface, and a radio-frequency.

Claim 14. (New) The portable information device of Claim 13, wherein the radio frequency interface is a Bluetooth radio frequency interface.

Claim 15. (New) A voice communication device comprising:

a network interface operable to provide a plurality of data communications channels to communicate with a data network, wherein the network interface is operable to communicate a voice signal as voice-over-data packets on a voice-over-data channel and to communicate data as data packets on a data channel;

a media engine operable to send and receive packets via the network interface over the data network, and to determine a type of data contained in received packets, the media engine including program logic executable to provide:

a voice-over-data application operable to receive packets containing voice and to convert the data packets containing voice to voice signals; and

a portable information device application operable to receive packets containing data;

a portable information device interface operable to communicate with a portable information device, wherein the portable information device application provides received packets containing data to the portable information device interface;

wherein the voice-over-data channel for communicating the voice-over-data packets concurrently exists with the data channel for communicating data so that the portable information device interface receives data packets from the data network while voice signals are communicated over the network interface.

Claim 16. (New) The voice communication device of Claim 15, wherein the network interface is an Ethernet communications interface for connection to an Ethernet port.

Claim 17. (New) The voice communication device of Claim 15, wherein the media engine formats data as data packets to be sent over the data network in accordance with a selected protocol.

Claim 18. (New) The voice communication device of Claim 17, wherein the selected protocol is selected from the group consisting of the session initiation protocol (SIP), the ITU-T H.323 protocol, the MGCP, and the MEGACO protocol.

Claim 19. (New) The voice communication device of Claim 15, wherein the portable information device interface is selected from the group consisting of an RS-232 serial connection, a docking cradle for a Personal Digital Assistant, an infrared interface, and a radio frequency interface.

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Claim 20. (New) The voice communication device of Claim 19, wherein the radio frequency interface is a Bluetooth radio interface.

Claim 21. (New) The voice communication device of Claim 15, wherein the media engine determines the type of data contained in received packets by examining a packet header of each received packet.

Claim 22. (New) The voice communication device of Claim 15, wherein the voice communication device is a data network telephone.

Claim 23. (New) A voice communication device comprising:

a network interface operable to provide a plurality of data communications channels to communicate with a data network, wherein the network interface is operable to communicate a voice signal as voice-over-data packets on a voice-over-data channel and to communicate data as data packets on a data channel;

a wireless interface for communicating via a wireless link with a portable information device; and

a media engine operable to send and receive data packets via the network interface over the data network in accordance with the session initiation protocol (SIP), and to determine a type of data contained in received packets to determine whether to route the received packets to the wireless interface for transmission to the portable information device, the media engine further operable to concurrently maintain the voice-over-data channel for communicating the voice-over-data packets and the data channel for communicating data.
